



## H32

## Series and Parallel Pump Test Set

*Shows the performance of pumps in series and parallel*



- Easy-to-use, mobile unit
- Shows performance of one pump, or two pumps in series or parallel
- Long-life, robust valves with large handles allow students to change water circuit in seconds, ready for the next experiment
- Works with TecEquipment's hydraulic benches for easy installation and flow measurement
- Includes pressure gauge to measure delivery pressure

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- An ISO 9001 certified company

# H32

## Series and Parallel Pump Test Set

### Description

This apparatus works with TecEquipment's Gravimetric Hydraulic Bench or Volumetric Hydraulic Bench (H1 and H1D, available separately). It gives a low-cost demonstration of pump performance in series and parallel. The apparatus is made up of a self-contained modular frame with two similar three-speed centrifugal pumps connected by pipes and valves. Students can set the pipes and valves to test the performance of a single pump, two pumps in series, or two pumps in parallel. A mechanical gauge measures delivery pressure. TecEquipment's hydraulic benches measure flow rate.

### Standard Features

- Supplied with a comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives

### Experiments

- Performance of single centrifugal pump
- Parallel operating characteristics of two similar pumps
- Series operating characteristics of two similar pumps
- Parallel operating characteristics of two pumps operating at different speeds
- Series operating characteristics of two pumps operating at different speeds

### Essential Base Unit

- Gravimetric Hydraulic Bench (H1)  
**or**
- Volumetric Hydraulic Bench (H1D)

### Essential Services

*Electrical supply:*

230 VAC, 50/60 Hz, 2 A, single-phase or two-phase

*Water supply:*

From the Hydraulic Bench (H1 or H1D)

*Floor space needed:*

1 m x 1 m (plus space for the hydraulic bench)

### Operating Conditions

*Operating environment:*

Laboratory

*Storage temperature range:*

-25°C to +55°C (when packed for transport)

*Operating temperature range:*

+5°C to +40°C

*Operating relative humidity range:*

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

### Specifications

*Nett dimensions and weight:*

520 x 460 x 700 mm and 25 kg

*Packed dimensions and weight:*

0.34m<sup>3</sup>, 60 kg (approx – packed for export)

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*innovation.*

*integration.*

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